SEQUENCE LISTING

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<110>   Bachmann, Martin
        Vogt, Lorenz

<120>   Immune Modulatory Compounds and Methods

<130>   1700.0390002

<150>   60/408,233
<151>   2002-09-06

<150>   60/449,583
<151>   2003-02-26

<160>   50

<170>   PatentIn version 3.2

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cca gta tcg ctg acc agc agt ctt gtc ttc ctc atg cac ctc ctc ctc      98
Pro Val Ser Leu Thr Ser Ser Leu Val Phe Leu Met His Leu Leu Leu
        15                  20                  25

ctt cag cct ggg gag ccg agc tca gag gtc aag gtg cta ggc cct gag     146
Leu Gln Pro Gly Glu Pro Ser Ser Glu Val Lys Val Leu Gly Pro Glu
        30                  35                  40

tat ccc atc ctg gcc ctc gtc ggg gag gag gtg gag ttc ccg tgc cac     194
Tyr Pro Ile Leu Ala Leu Val Gly Glu Glu Val Glu Phe Pro Cys His
45                  50                  55                  60

cta tgg cca cag ctg gat gcc cag caa atg gag atc cgc tgg ttc cgg     242
Leu Trp Pro Gln Leu Asp Ala Gln Gln Met Glu Ile Arg Trp Phe Arg
                65                  70                  75

agt cag acc ttc aat gtg gta cac ctg tac cag gag cag cag gag ctc     290
Ser Gln Thr Phe Asn Val Val His Leu Tyr Gln Glu Gln Gln Glu Leu
                80                  85                  90

cct ggc agg cag atg ccg gcg ttc cgg aac agg acc aag ttg gtc aag     338
Pro Gly Arg Gln Met Pro Ala Phe Arg Asn Arg Thr Lys Leu Val Lys
        95                  100                 105

gac gac atc gcc tat ggc agc gtg gtc ctg cag ctt cac agc atc atc     386
Asp Asp Ile Ala Tyr Gly Ser Val Val Leu Gln Leu His Ser Ile Ile
        110                 115                 120
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ccc tct gac aag ggc aca tat ggc tgc cgc ttc cac tcc gac aac ttc      434
Pro Ser Asp Lys Gly Thr Tyr Gly Cys Arg Phe His Ser Asp Asn Phe
125             130             135             140

tct ggc gaa gct ctc tgg gaa ctg gag gta gca ggg ctg ggc tca gac      482
Ser Gly Glu Ala Leu Trp Glu Leu Glu Val Ala Gly Leu Gly Ser Asp
                145             150             155

cct cac ctc tcc ctt gag ggc ttc aag gaa gga ggc att cag ctg agg      530
Pro His Leu Ser Leu Glu Gly Phe Lys Glu Gly Gly Ile Gln Leu Arg
            160             165             170

ctc aga tcc agt ggc tgg tac ccc aag cct aag gtt cag tgg aga gac      578
Leu Arg Ser Ser Gly Trp Tyr Pro Lys Pro Lys Val Gln Trp Arg Asp
            175             180             185

cac cag gga cag tgc ctg cct cca gag ttt gaa gcc atc gtc tgg gat      626
His Gln Gly Gln Cys Leu Pro Pro Glu Phe Glu Ala Ile Val Trp Asp
        190             195             200

gcc cag gac ctg ttc agt ctg gaa aca tct gtg gtt gtc cga gcg gga      674
Ala Gln Asp Leu Phe Ser Leu Glu Thr Ser Val Val Val Arg Ala Gly
205             210             215             220

gcc ctc agc aat gtg tcc gtc tcc atc cag aat ctc ctc ttg agc cag      722
Ala Leu Ser Asn Val Ser Val Ser Ile Gln Asn Leu Leu Leu Ser Gln
            225             230             235

aag aaa gag ttg gtg gtc cag ata gca gac gtg ttc gta ccc gga gcc      770
Lys Lys Glu Leu Val Val Gln Ile Ala Asp Val Phe Val Pro Gly Ala
            240             245             250

tct gcg tgg aag agc gcg ttc gtc gcg acc ctg ccg ctg ctg ttg gtc      818
Ser Ala Trp Lys Ser Ala Phe Val Ala Thr Leu Pro Leu Leu Leu Val
            255             260             265

ctc gcg gcg ctg gcg ctg ggc gtc ctc cgg aag cag cgg aga agc cga      866
Leu Ala Ala Leu Ala Leu Gly Val Leu Arg Lys Gln Arg Arg Ser Arg
            270             275             280

gaa aag ctg agg aag cag gcg gag aag aga caa ggt gag cgg gga cag      914
Glu Lys Leu Arg Lys Gln Ala Glu Lys Arg Gln Gly Glu Arg Gly Gln
285             290             295             300

ggc gtt ctg cac gca cct gcc caa gtg cca aaa ccc gcc gtc atc           959
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Thr Ser Ser Leu Val Phe Leu Met His Leu Leu Leu Leu Gln Pro Gly
            20   25   30

Glu Pro Ser Ser Glu Val Lys Val Leu Gly Pro Glu Tyr Pro Ile Leu
            35   40   45

Ala Leu Val Gly Glu Glu Val Glu Phe Pro Cys His Leu Trp Pro Gln
        50   55   60

Leu Asp Ala Gln Gln Met Glu Ile Arg Trp Phe Arg Ser Gln Thr Phe
65   70   75   80

Asn Val Val His Leu Tyr Gln Glu Gln Glu Leu Pro Gly Arg Gln
                85   90   95

Met Pro Ala Phe Arg Asn Arg Thr Lys Leu Val Lys Asp Asp Ile Ala
            100   105   110

Tyr Gly Ser Val Val Leu Gln Leu His Ser Ile Ile Pro Ser Asp Lys
        115   120   125

Gly Thr Tyr Gly Cys Arg Phe His Ser Asp Asn Phe Ser Gly Glu Ala
    130   135   140

Leu Trp Glu Leu Glu Val Ala Gly Leu Gly Ser Asp Pro His Leu Ser
145   150   155   160

Leu Glu Gly Phe Lys Glu Gly Gly Ile Gln Leu Arg Leu Arg Ser Ser
                165   170   175

Gly Trp Tyr Pro Lys Pro Lys Val Gln Trp Arg Asp His Gln Gly Gln
            180   185   190

Cys Leu Pro Pro Glu Phe Glu Ala Ile Val Trp Asp Ala Gln Asp Leu
        195   200   205

Phe Ser Leu Glu Thr Ser Val Val Val Arg Ala Gly Ala Leu Ser Asn
    210   215   220

Val Ser Val Ser Ile Gln Asn Leu Leu Leu Ser Gln Lys Lys Glu Leu
225   230   235   240

Val Val Gln Ile Ala Asp Val Phe Val Pro Gly Ala Ser Ala Trp Lys
                245   250   255

Ser Ala Phe Val Ala Thr Leu Pro Leu Leu Leu Val Leu Ala Ala Leu
            260   265   270

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Ala Leu Gly Val Leu Arg Lys Gln Arg Arg Ser Arg Glu Lys Leu Arg
        275             280             285
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Lys Gln Ala Glu Lys Arg Gln Gly Glu Arg Gly Gln Gly Val Leu His
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                        1                 5                   10

ttg aag cca gta tcg ctg acc agc agt ctt gtc ttc ctc atg cac ctc        99
Leu Lys Pro Val Ser Leu Thr Ser Ser Leu Val Phe Leu Met His Leu
                15                  20                  25

ctc ctc ctt cag cct ggg gag ccg agc tca gag gtc aag gtg cta ggc       147
Leu Leu Leu Gln Pro Gly Glu Pro Ser Ser Glu Val Lys Val Leu Gly
            30                  35                  40

cct gag tat ccc atc ctg gcc ctc gtc ggg gag gag gtg gag ttc ccg       195
Pro Glu Tyr Pro Ile Leu Ala Leu Val Gly Glu Glu Val Glu Phe Pro
            45                  50                  55

tgc cac cta tgg cca cag ctg gat gcc cag caa atg gag atc cgc tgg       243
Cys His Leu Trp Pro Gln Leu Asp Ala Gln Gln Met Glu Ile Arg Trp
        60                  65                  70

ttc cgg agt cag acc ttc aat gtg gta cac ctg tac cag gag cag cag       291
Phe Arg Ser Gln Thr Phe Asn Val Val His Leu Tyr Gln Glu Gln Gln
75                  80                  85                  90

gag ctc cct ggc agg cag atg ccg gcg ttc cgg aac agg acc aag ttg       339
Glu Leu Pro Gly Arg Gln Met Pro Ala Phe Arg Asn Arg Thr Lys Leu
                95                  100                 105

gtc aag gac gac atc gcc tat ggc agc gtg gtc ctg cag ctt cac agc       387
Val Lys Asp Asp Ile Ala Tyr Gly Ser Val Val Leu Gln Leu His Ser
            110                 115                 120

atc atc ccc tct gac aag ggc aca tat ggc tgc cgc ttc cac tcc gac       435
Ile Ile Pro Ser Asp Lys Gly Thr Tyr Gly Cys Arg Phe His Ser Asp
            125                 130                 135

aac ttc tct ggc gaa gct ctc tgg gaa ctg gag gta gca ggg ctg ggc       483
Asn Phe Ser Gly Glu Ala Leu Trp Glu Leu Glu Val Ala Gly Leu Gly
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            140                    145                    150

tca gac cct cac ctc tcc ctt gag ggc ttc aag gaa gga ggc att cag        531
Ser Asp Pro His Leu Ser Leu Glu Gly Phe Lys Glu Gly Gly Ile Gln
155             160             165             170

ctg agg ctc aga tcc agt ggc tgg tac ccc aag cct aag gtt cag tgg        579
Leu Arg Leu Arg Ser Ser Gly Trp Tyr Pro Lys Pro Lys Val Gln Trp
                175             180             185

aga gac cac cag gga cag tgc ctg cct cca gag ttt gaa gcc atc gtc        627
Arg Asp His Gln Gly Gln Cys Leu Pro Pro Glu Phe Glu Ala Ile Val
            190             195             200

tgg gat gcc cag gac ctg ttc agt ctg gaa aca tct gtg gtt gtc cga        675
Trp Asp Ala Gln Asp Leu Phe Ser Leu Glu Thr Ser Val Val Val Arg
            205             210             215

gcg gga gcc ctc agc aat gtg tcc gtc tcc atc cag aat ctc ctc ttg        723
Ala Gly Ala Leu Ser Asn Val Ser Val Ser Ile Gln Asn Leu Leu Leu
            220             225             230

agc cag aag aaa gag ttg gtg gtc cag ata gca gac gtg ttc gta ccc        771
Ser Gln Lys Lys Glu Leu Val Val Gln Ile Ala Asp Val Phe Val Pro
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Gly Leu Ala
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1               5                   10              15


Thr Ser Ser Leu Val Phe Leu Met His Leu Leu Leu Leu Gln Pro Gly
                20              25              30


Glu Pro Ser Ser Glu Val Lys Val Leu Gly Pro Glu Tyr Pro Ile Leu
                35              40              45


Ala Leu Val Gly Glu Glu Val Glu Phe Pro Cys His Leu Trp Pro Gln
        50              55              60


Leu Asp Ala Gln Gln Met Glu Ile Arg Trp Phe Arg Ser Gln Thr Phe
65              70              75              80


Asn Val Val His Leu Tyr Gln Glu Gln Gln Glu Leu Pro Gly Arg Gln
                85              90              95
```

```
Met Pro Ala Phe Arg Asn Arg Thr Lys Leu Val Lys Asp Asp Ile Ala
            100                 105             110


Tyr Gly Ser Val Val Leu Gln Leu His Ser Ile Ile Pro Ser Asp Lys
        115                 120                 125


Gly Thr Tyr Gly Cys Arg Phe His Ser Asp Asn Phe Ser Gly Glu Ala
    130                 135                 140


Leu Trp Glu Leu Glu Val Ala Gly Leu Gly Ser Asp Pro His Leu Ser
145                 150                 155                 160


Leu Glu Gly Phe Lys Glu Gly Gly Ile Gln Leu Arg Leu Arg Ser Ser
                165                 170                 175


Gly Trp Tyr Pro Lys Pro Lys Val Gln Trp Arg Asp His Gln Gly Gln
            180                 185                 190


Cys Leu Pro Pro Glu Phe Glu Ala Ile Val Trp Asp Ala Gln Asp Leu
            195                 200                 205


Phe Ser Leu Glu Thr Ser Val Val Val Arg Ala Gly Ala Leu Ser Asn
    210                 215                 220


Val Ser Val Ser Ile Gln Asn Leu Leu Leu Ser Gln Lys Lys Glu Leu
225                 230                 235                 240


Val Val Gln Ile Ala Asp Val Phe Val Pro Gly Leu Ala
                245                 250
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agcgacacag aagacaggtg atttctgcat ttccatctga ggcaagaaga ataa atg        177
                                                            Met
                                                            1

tct ctg gtg gaa ctt ttg ctc tgg tgg aac tgc ttt tct aga act ggt        225
Ser Leu Val Glu Leu Leu Leu Trp Trp Asn Cys Phe Ser Arg Thr Gly
            5               10                  15
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-7-

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gtt gca gca tcc ctg gaa gtg tca gag agc cct ggg agt atc cag gtg       273
Val Ala Ala Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Ile Gln Val
        20                  25                  30

gcc cgg ggt cag aca gca gtc ctg ccc tgc act ttc act acc agc gct       321
Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr Ser Ala
        35                  40                  45

gcc ctc att aac ctc aat gtc att tgg atg gtc act cct ctc tcc aat       369
Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu Ser Asn
50              55                  60                  65

gcc aac caa cct gaa cag gtc atc ctg tat cag ggt gga cag atg ttt       417
Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln Met Phe
                70                  75                  80

gat ggt gcc ccc cgg ttc cac ggt agg gta gga ttt aca ggc acc atg       465
Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly Thr Met
            85                  90                  95

cca gct acc aat gtc tct atc ttc att aat aac act cag tta tca gac       513
Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu Ser Asp
        100                 105                 110

act ggc acc tac cag tgc ctg gtc aac aac ctt cca gac ata ggg ggc       561
Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile Gly Gly
        115                 120                 125

agg aac att ggg gtc acc ggt ctc aca gtg tta gtt ccc cct tct gcc       609
Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro Ser Ala
130                 135                 140                 145

cca cac tgc caa atc caa gga tcc cag gat att ggc agc gat gtc atc       657
Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp Val Ile
                150                 155                 160

ctg ctc tgt agc tca gag gaa ggc att cct cga cca act tac ctt tgg       705
Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr Leu Trp
            165                 170                 175

gag aag tta gac aat acc ctc aaa cta cct cca aca gct act cag gac       753
Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr Gln Asp
            180                 185                 190

cag gtc cag gga aca gtc acc atc cgg aac atc agt gcc ctg tct tca       801
Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu Ser Ser
        195                 200                 205

ggt ttg tac cag tgc gtg gct tct aat gct att gga acc agc acc tgt       849
Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser Thr Cys
210                 215                 220                 225

ctt ctg gat ctc cag gtt att tca ccc cag ccc agg aac att gga cta       897
Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Asn Ile Gly Leu
                230                 235                 240

ata gct gga gcc att ggc act ggt gca gtt att atc att ttt tgc att       945
Ile Ala Gly Ala Ile Gly Thr Gly Ala Val Ile Ile Ile Phe Cys Ile
            245                 250                 255

gca cta att tta ggg gca ttc ttt tac tgg aga agc aaa aat aaa gag       993
Ala Leu Ile Leu Gly Ala Phe Phe Tyr Trp Arg Ser Lys Asn Lys Glu
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            260                    265                    270
gag gaa gaa gaa gaa att cct aat gaa ata aga gag gat gat ctt cca    1041
Glu Glu Glu Glu Glu Ile Pro Asn Glu Ile Arg Glu Asp Asp Leu Pro
        275                280                285

ccc aag tgt tct tct gcc aaa gca ttt cac act gag att tcc tcc tcg    1089
Pro Lys Cys Ser Ser Ala Lys Ala Phe His Thr Glu Ile Ser Ser Ser
290                295                300                305

gac aac aac aca cta acc tct tcc aat gcc tac aac agt cga tac tgg    1137
Asp Asn Asn Thr Leu Thr Ser Ser Asn Ala Tyr Asn Ser Arg Tyr Trp
            310                315                320

agc aac aat cca aaa gtt cat aga aac aca gag tca gtc agc cac ttc    1185
Ser Asn Asn Pro Lys Val His Arg Asn Thr Glu Ser Val Ser His Phe
                325                330                335

agt gac ttg ggc caa tct ttc tct ttc cac tca ggc aat gcc aac ata    1233
Ser Asp Leu Gly Gln Ser Phe Ser Phe His Ser Gly Asn Ala Asn Ile
            340                345                350

cca tcc att tat gct aat ggg acc cat ctg gtc ccg ggt caa cat aag    1281
Pro Ser Ile Tyr Ala Asn Gly Thr His Leu Val Pro Gly Gln His Lys
            355                360                365

act ctg gta gtg aca gcc aac aga ggg tca tca cca cag gtg atg tcc    1329
Thr Leu Val Val Thr Ala Asn Arg Gly Ser Ser Pro Gln Val Met Ser
370                375                380                385

agg agc aat ggc tca gtc agt agg aag cct cgg cct cca cac act cat    1377
Arg Ser Asn Gly Ser Val Ser Arg Lys Pro Arg Pro Pro His Thr His
            390                395                400

tcc tac acc atc agc cac gca aca ctg gaa cga att ggt gca gta cct    1425
Ser Tyr Thr Ile Ser His Ala Thr Leu Glu Arg Ile Gly Ala Val Pro
            405                410                415

gtc atg gta cca gcc cag agt cgg gcc ggg tcc ttg gta taggacatga    1474
Val Met Val Pro Ala Gln Ser Arg Ala Gly Ser Leu Val
            420                425                430

ggaaatgttg tgttcagaaa tgaataaatg gaatgccctc atacaagggg gagggtgggg    1534

tggggagtgc tgggaaagaa acacttcctt ataattatat tagtaaaatg cacaaagaag    1594

aaggcagtgc tgttacttgg ccactaagat gtgtaaaatg gactgaaatg ctccatcatg    1654

aagacttgct tccccaccaa agatgtcctg ggattctgct ggatctcaaa gatgtgccaa    1714

gccaaggaaa aagatacaag agcagaatag tacttaaaat ccaaactgcc gcccagatgg    1774

gcttgttctt catgcctaac ttaataattt ttaagagatt aaagtgccag atggagttta    1834

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1894

aaaaaaaaaa a    1905
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<213> homo sapiens

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Gly Val Ala Ala Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Ile Gln
            20   25   30

Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr Ser
        35   40   45

Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu Ser
    50   55   60

Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln Met
65   70   75   80

Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly Thr
            85   90   95

Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu Ser
            100   105   110

Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile Gly
        115   120   125

Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro Ser
    130   135   140

Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp Val
145   150   155   160

Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr Leu
            165   170   175

Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr Gln
            180   185   190

Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu Ser
        195   200   205

Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser Thr
    210   215   220

Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Asn Ile Gly
225   230   235   240

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Leu Ile Ala Gly Ala Ile Gly Thr Gly Ala Val Ile Ile Ile Phe Cys
            245             250             255

Ile Ala Leu Ile Leu Gly Ala Phe Phe Tyr Trp Arg Ser Lys Asn Lys
            260             265             270

Glu Glu Glu Glu Glu Glu Ile Pro Asn Glu Ile Arg Glu Asp Asp Leu
            275             280             285

Pro Pro Lys Cys Ser Ser Ala Lys Ala Phe His Thr Glu Ile Ser Ser
    290             295             300

Ser Asp Asn Asn Thr Leu Thr Ser Ser Asn Ala Tyr Asn Ser Arg Tyr
305             310             315             320

Trp Ser Asn Asn Pro Lys Val His Arg Asn Thr Glu Ser Val Ser His
            325             330             335

Phe Ser Asp Leu Gly Gln Ser Phe Ser Phe His Ser Gly Asn Ala Asn
            340             345             350

Ile Pro Ser Ile Tyr Ala Asn Gly Thr His Leu Val Pro Gly Gln His
            355             360             365

Lys Thr Leu Val Val Thr Ala Asn Arg Gly Ser Ser Pro Gln Val Met
    370             375             380

Ser Arg Ser Asn Gly Ser Val Ser Arg Lys Pro Arg Pro Pro His Thr
385             390             395             400

His Ser Tyr Thr Ile Ser His Ala Thr Leu Glu Arg Ile Gly Ala Val
            405             410             415

Pro Val Met Val Pro Ala Gln Ser Arg Ala Gly Ser Leu Val
            420             425             430
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<222>  (9)..(734)

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         Met Ser Leu Val Glu Leu Leu Leu Trp Trp Asn Cys Phe Ser
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         1                     5                         10

aga  act  ggt  gtt  gca  gca  tcc  ctg  gaa  gtg  tca  gag  agc  cct  ggg  agt        98
Arg  Thr  Gly  Val  Ala  Ala  Ser  Leu  Glu  Val  Ser  Glu  Ser  Pro  Gly  Ser
15                  20                       25                      30

atc  cag  gtg  gcc  cgg  ggt  cag  aca  gca  gtc  ctg  ccc  tgc  act  ttc  act       146
Ile  Gln  Val  Ala  Arg  Gly  Gln  Thr  Ala  Val  Leu  Pro  Cys  Thr  Phe  Thr
                    35                       40                      45

acc  agc  gct  gcc  ctc  att  aac  ctc  aat  gtc  att  tgg  atg  gtc  act  cct       194
Thr  Ser  Ala  Ala  Leu  Ile  Asn  Leu  Asn  Val  Ile  Trp  Met  Val  Thr  Pro
                    50                       55                      60

ctc  tcc  aat  gcc  aac  caa  cct  gaa  cag  gtc  atc  ctg  tat  cag  ggt  gga       242
Leu  Ser  Asn  Ala  Asn  Gln  Pro  Glu  Gln  Val  Ile  Leu  Tyr  Gln  Gly  Gly
               65                       70                      75

cag  atg  ttt  gat  ggt  gcc  ccc  cgg  ttc  cac  ggt  agg  gta  gga  ttt  aca       290
Gln  Met  Phe  Asp  Gly  Ala  Pro  Arg  Phe  His  Gly  Arg  Val  Gly  Phe  Thr
          80                       85                      90

ggc  acc  atg  cca  gct  acc  aat  gtc  tct  atc  ttc  att  aat  aac  act  cag       338
Gly  Thr  Met  Pro  Ala  Thr  Asn  Val  Ser  Ile  Phe  Ile  Asn  Asn  Thr  Gln
95                       100                      105                      110

tta  tca  gac  act  ggc  acc  tac  cag  tgc  ctg  gtc  aac  aac  ctt  cca  gac       386
Leu  Ser  Asp  Thr  Gly  Thr  Tyr  Gln  Cys  Leu  Val  Asn  Asn  Leu  Pro  Asp
                    115                      120                      125

ata  ggg  ggc  agg  aac  att  ggg  gtc  acc  ggt  ctc  aca  gtg  tta  gtt  ccc       434
Ile  Gly  Gly  Arg  Asn  Ile  Gly  Val  Thr  Gly  Leu  Thr  Val  Leu  Val  Pro
               130                      135                      140

cct  tct  gcc  cca  cac  tgc  caa  atc  caa  gga  tcc  cag  gat  att  ggc  agc       482
Pro  Ser  Ala  Pro  His  Cys  Gln  Ile  Gln  Gly  Ser  Gln  Asp  Ile  Gly  Ser
               145                      150                      155

gat  gtc  atc  ctg  ctc  tgt  agc  tca  gag  gaa  ggc  att  cct  cga  cca  act       530
Asp  Val  Ile  Leu  Leu  Cys  Ser  Ser  Glu  Glu  Gly  Ile  Pro  Arg  Pro  Thr
     160                      165                      170

tac  ctt  tgg  gag  aag  tta  gac  aat  acc  ctc  aaa  cta  cct  cca  aca  gct       578
Tyr  Leu  Trp  Glu  Lys  Leu  Asp  Asn  Thr  Leu  Lys  Leu  Pro  Pro  Thr  Ala
175                      180                      185                      190

act  cag  gac  cag  gtc  cag  gga  aca  gtc  acc  atc  cgg  aac  atc  agt  gcc       626
Thr  Gln  Asp  Gln  Val  Gln  Gly  Thr  Val  Thr  Ile  Arg  Asn  Ile  Ser  Ala
                    195                      200                      205

ctg  tct  tca  ggt  ttg  tac  cag  tgc  gtg  gct  tct  aat  gct  att  gga  acc       674
Leu  Ser  Ser  Gly  Leu  Tyr  Gln  Cys  Val  Ala  Ser  Asn  Ala  Ile  Gly  Thr
               210                      215                      220

agc  acc  tgt  ctt  ctg  gat  ctc  cag  gtt  att  tca  ccc  cag  ccc  agg  aac       722
Ser  Thr  Cys  Leu  Leu  Asp  Leu  Gln  Val  Ile  Ser  Pro  Gln  Pro  Arg  Asn
          225                      230                      235

att  ggg  cta  gcc  g                                                                735
Ile  Gly  Leu  Ala
          240
```

<210> 8
<211> 242
<212> PRT
<213> homo sapiens

<400> 8

Met Ser Leu Val Glu Leu Leu Leu Trp Trp Asn Cys Phe Ser Arg Thr
1   5   10   15

Gly Val Ala Ala Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Ile Gln
                20   25   30

Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr Ser
            35   40   45

Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu Ser
        50   55   60

Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln Met
65   70   75   80

Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly Thr
                85   90   95

Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu Ser
                100   105   110

Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile Gly
            115   120   125

Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro Ser
        130   135   140

Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp Val
145   150   155   160

Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr Leu
                165   170   175

Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr Gln
                180   185   190

Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu Ser
            195   200   205

Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser Thr
        210   215   220

```
Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Asn Ile Gly
225             230             235             240


Leu Ala


<210>  9
<211>  1395
<212>  DNA
<213>  Mus musculus


<220>
<221>  CDS
<222>  (64)..(1347)

<400>  9
cctacgctgc taccccgtcc gcccaggagc ccggcggacg gcggctcccc cggcggctcc    60

ggc atg act cgg cgg cgc tcc gct ccg gcg tcc tgg ctg ctc gtg tcg   108
    Met Thr Arg Arg Arg Ser Ala Pro Ala Ser Trp Leu Leu Val Ser
    1               5               10              15

ctg ctc ggt gtc gca aca tcc ctg gaa gtg tcc gag agc cca ggc agt   156
Leu Leu Gly Val Ala Thr Ser Leu Glu Val Ser Glu Ser Pro Gly Ser
                20              25              30

gtc cag gtg gcc cgg ggc cag aca gca gtc ctg ccc tgc gcc ttc tcc   204
Val Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Ala Phe Ser
            35              40              45

acc agt gct gcc ctc ctg aac ctc aat gtc att tgg atg gtc att ccc   252
Thr Ser Ala Ala Leu Leu Asn Leu Asn Val Ile Trp Met Val Ile Pro
        50              55              60

ctc tcc aat gca aac cag ccc gaa cag gtc att ctt tat cag ggt gga   300
Leu Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly
    65              70              75

caa atg ttt gac ggc gcc ctc cgg ttc cac ggg agg gta gga ttt acc   348
Gln Met Phe Asp Gly Ala Leu Arg Phe His Gly Arg Val Gly Phe Thr
80              85              90              95

ggc acc atg cct gct acc aat gtc tcg atc ttc atc aat aac aca cag   396
Gly Thr Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln
            100             105             110

ctg tca gat acg ggc acg tac cag tgc ttg gtg aat aac ctt cca gac   444
Leu Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp
            115             120             125

aga ggg ggc aga aac atc ggg gtc act ggc ctc aca gtg tta gtc ccc   492
Arg Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro
        130             135             140

cct tct gct cca caa tgc caa atc caa gga tcc cag gac ctc ggc agt   540
Pro Ser Ala Pro Gln Cys Gln Ile Gln Gly Ser Gln Asp Leu Gly Ser
    145             150             155

gac gtc atc ctt ctg tgt agt tca gag gaa ggc atc cct cgg ccc acg   588
```

```
Asp Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr
160                 165             170                 175

tac ctt tgg gag aag tta gat aat acg ctc aag cta cct cca aca gcc     636
Tyr Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala
                180             185                 190

act cag gac cag gtc cag gga aca gtc acc atc cgg aat atc agt gcc     684
Thr Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala
                195             200                 205

ctc tct tcc ggt ctg tac cag tgt gtg gct tct aat gcc atc ggg acc     732
Leu Ser Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr
                210             215                 220

agc acc tgt ctg ctg gac ctc cag gtt atc tca ccc cag ccc cgg agc     780
Ser Thr Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Ser
        225                 230             235

gtt gga gta ata gcc gga gcg gtt ggc acc ggt gct gtt ctt atc gtc     828
Val Gly Val Ile Ala Gly Ala Val Gly Thr Gly Ala Val Leu Ile Val
240                 245             250                 255

atc tgc ctt gca cta att tca ggg gcg ttc ttt tac tgg aga agc aaa     876
Ile Cys Leu Ala Leu Ile Ser Gly Ala Phe Phe Tyr Trp Arg Ser Lys
                260             265                 270

aac aaa gag gag gag gag gaa gaa att cct aat gaa atc aga gag gat     924
Asn Lys Glu Glu Glu Glu Glu Glu Ile Pro Asn Glu Ile Arg Glu Asp
                275             280                 285

gat ctt ccc cct aaa tgc tct tct gcc aaa gcc ttc cac acg gag ata     972
Asp Leu Pro Pro Lys Cys Ser Ser Ala Lys Ala Phe His Thr Glu Ile
        290             295                 300

tcc tcc tca gaa aat aac acg ctg acc tct tcc aat acc tac aac agt    1020
Ser Ser Ser Glu Asn Asn Thr Leu Thr Ser Ser Asn Thr Tyr Asn Ser
    305                 310             315

cga tac tgg aac aac aat cca aaa ccc cat aga aac aca gag tct ttc    1068
Arg Tyr Trp Asn Asn Asn Pro Lys Pro His Arg Asn Thr Glu Ser Phe
320                 325             330                 335

aac cac ttc agt gac tta cgc cag tct ttc tct ggc aat gca gtt atc    1116
Asn His Phe Ser Asp Leu Arg Gln Ser Phe Ser Gly Asn Ala Val Ile
                340             345                 350

cca tca atc tat gca aat ggg aac cat ctg gtt ttg ggt cca cat aag    1164
Pro Ser Ile Tyr Ala Asn Gly Asn His Leu Val Leu Gly Pro His Lys
                355             360                 365

act ctg gta gtt aca gcc aac aga ggg tca tca cct cag gtc ttg ccc    1212
Thr Leu Val Val Thr Ala Asn Arg Gly Ser Ser Pro Gln Val Leu Pro
        370             375                 380

agg aac aat ggt tca gtc agc agg aag cct tgg cct caa cac act cat    1260
Arg Asn Asn Gly Ser Val Ser Arg Lys Pro Trp Pro Gln His Thr His
    385                 390             395

tcc tac aca gta agc caa atg acc ctg gag cgc atc ggt gca gtg cct    1308
Ser Tyr Thr Val Ser Gln Met Thr Leu Glu Arg Ile Gly Ala Val Pro
400                 405             410                 415
```

```
gtc atg gtg cct gcc cag agt cga gca ggg tcc ctg gta taggatgact        1357
Val Met Val Pro Ala Gln Ser Arg Ala Gly Ser Leu Val
            420             425

gaggaaacca tgttcagaag agaataaatg gaccgcct                             1395
```

<210> 10
<211> 428
<212> PRT
<213> Mus musculus

<400> 10

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Met Thr Arg Arg Arg Ser Ala Pro Ala Ser Trp Leu Leu Val Ser Leu
1               5               10              15

Leu Gly Val Ala Thr Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Val
            20              25              30

Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Ala Phe Ser Thr
            35              40              45

Ser Ala Ala Leu Leu Asn Leu Asn Val Ile Trp Met Val Ile Pro Leu
        50              55              60

Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln
65              70              75              80

Met Phe Asp Gly Ala Leu Arg Phe His Gly Arg Val Gly Phe Thr Gly
            85              90              95

Thr Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu
            100             105             110

Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Arg
            115             120             125

Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro
    130             135             140

Ser Ala Pro Gln Cys Gln Ile Gln Gly Ser Gln Asp Leu Gly Ser Asp
145             150             155             160

Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr
            165             170             175

Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr
            180             185             190
```

Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu
        195   200   205

Ser Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser
210   215   220

Thr Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Gln Pro Arg Ser Val
225   230   235   240

Gly Val Ile Ala Gly Ala Val Gly Thr Gly Ala Val Leu Ile Val Ile
                245   250   255

Cys Leu Ala Leu Ile Ser Gly Ala Phe Phe Tyr Trp Arg Ser Lys Asn
            260   265   270

Lys Glu Glu Glu Glu Glu Glu Ile Pro Asn Glu Ile Arg Glu Asp Asp
        275   280   285

Leu Pro Pro Lys Cys Ser Ser Ala Lys Ala Phe His Thr Glu Ile Ser
    290   295   300

Ser Ser Glu Asn Asn Thr Leu Thr Ser Ser Asn Thr Tyr Asn Ser Arg
305   310   315   320

Tyr Trp Asn Asn Asn Pro Lys Pro His Arg Asn Thr Glu Ser Phe Asn
            325   330   335

His Phe Ser Asp Leu Arg Gln Ser Phe Ser Gly Asn Ala Val Ile Pro
            340   345   350

Ser Ile Tyr Ala Asn Gly Asn His Leu Val Leu Gly Pro His Lys Thr
            355   360   365

Leu Val Val Thr Ala Asn Arg Gly Ser Ser Pro Gln Val Leu Pro Arg
    370   375   380

Asn Asn Gly Ser Val Ser Arg Lys Pro Trp Pro Gln His Thr His Ser
385   390   395   400

Tyr Thr Val Ser Gln Met Thr Leu Glu Arg Ile Gly Ala Val Pro Val
            405   410   415

Met Val Pro Ala Gln Ser Arg Ala Gly Ser Leu Val
            420   425

<210> 11
<211> 723

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<212>  DNA
<213>  Mus musculus


<220>
<221>  CDS
<222>  (9)..(722)

<400>  11
ggggtacc atg act cgg cgg cgc tcc gct ccg gcg tcc tgg ctg ctc gtg      50
         Met Thr Arg Arg Arg Ser Ala Pro Ala Ser Trp Leu Leu Val
         1               5                   10

tcg ctg ctc ggt gtc gca aca tcc ctg gaa gtg tcc gag agc cca ggc      98
Ser Leu Leu Gly Val Ala Thr Ser Leu Glu Val Ser Glu Ser Pro Gly
15                  20                  25                  30

agt gtc cag gtg gcc cgg ggc cag aca gca gtc ctg ccc tgc gcc ttc     146
Ser Val Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Ala Phe
                35                  40                  45

tcc acc agt gct gcc ctc ctg aac ctc aat gtc att tgg atg gtc att     194
Ser Thr Ser Ala Ala Leu Leu Asn Leu Asn Val Ile Trp Met Val Ile
            50                  55                  60

ccc ctc tcc aat gca aac cag ccc gaa cag gtc att ctt tat cag ggt     242
Pro Leu Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly
            65                  70                  75

gga caa atg ttt gac ggc gcc ctc cgg ttc cac ggg agg gta gga ttt     290
Gly Gln Met Phe Asp Gly Ala Leu Arg Phe His Gly Arg Val Gly Phe
        80                  85                  90

acc ggc acc atg cct gct acc aat gtc tcg atc ttc atc aat aac aca     338
Thr Gly Thr Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr
95                  100                 105                 110

cag ctg tca gat acg ggc acg tac cag tgc ttg gtg aat aac ctt cca     386
Gln Leu Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro
                115                 120                 125

gac aga ggg ggc aga aac atc ggg gtc act ggc ctc aca gtg tta gtc     434
Asp Arg Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val
            130                 135                 140

ccc cct tct gct cca caa tgc caa atc caa gga tcc cag gac ctc ggc     482
Pro Pro Ser Ala Pro Gln Cys Gln Ile Gln Gly Ser Gln Asp Leu Gly
            145                 150                 155

agt gac gtc atc ctt ctg tgt agt tca gag gaa ggc atc cct cgg ccc     530
Ser Asp Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro
        160                 165                 170

acg tac ctt tgg gag aag tta gat aat acg ctc aag cta cct cca aca     578
Thr Tyr Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr
175                 180                 185                 190

gcc act cag gac cag gtc cag gga aca gtc acc atc cgg aat atc agt     626
Ala Thr Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser
                195                 200                 205

gcc ctc tct tcc ggt ctg tac cag tgt gtg gct tct aat gcc atc ggg     674
```

Ala Leu Ser Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly
                210   215   220

acc agc acc tgt ctg ctg gac ctc cag gtt atc tca ccc gtg cta gcc c   723
Thr Ser Thr Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Val Leu Ala
            225   230   235

<210> 12
<211> 238
<212> PRT
<213> Mus musculus

<400> 12

Met Thr Arg Arg Arg Ser Ala Pro Ala Ser Trp Leu Leu Val Ser Leu
1   5   10   15

Leu Gly Val Ala Thr Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Val
            20   25   30

Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Ala Phe Ser Thr
            35   40   45

Ser Ala Ala Leu Leu Asn Leu Asn Val Ile Trp Met Val Ile Pro Leu
    50   55   60

Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln
65   70   75   80

Met Phe Asp Gly Ala Leu Arg Phe His Gly Arg Val Gly Phe Thr Gly
            85   90   95

Thr Met Pro Ala Thr Asn Val Ser Ile Phe Ile Asn Asn Thr Gln Leu
            100   105   110

Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Arg
            115   120   125

Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro
    130   135   140

Ser Ala Pro Gln Cys Gln Ile Gln Gly Ser Gln Asp Leu Gly Ser Asp
145   150   155   160

Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr
            165   170   175

Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr
            180   185   190

```
Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu
    195             200             205

Ser Ser Gly Leu Tyr Gln Cys Val Ala Ser Asn Ala Ile Gly Thr Ser
    210             215             220

Thr Cys Leu Leu Asp Leu Gln Val Ile Ser Pro Val Leu Ala
225             230             235
```

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<210>  13
<211>  867
<212>  DNA
<213>  Mus musculus


<220>
<221>  CDS
<222>  (16)..(855)


<400>  13
gtagcttcaa atagg atg gag atc tca tca ggc ttg ctg ttc ctg ggc cac      51
              Met Glu Ile Ser Ser Gly Leu Leu Phe Leu Gly His
              1               5                   10

cta ata gtg ctc acc tat ggc cac ccc acc cta aaa aca cct gag agt      99
Leu Ile Val Leu Thr Tyr Gly His Pro Thr Leu Lys Thr Pro Glu Ser
        15              20                  25

gtg aca ggg acc tgg aaa gga gat gtg aag att cag tgc atc tat gat     147
Val Thr Gly Thr Trp Lys Gly Asp Val Lys Ile Gln Cys Ile Tyr Asp
        30              35                  40

ccc ctg aga ggc tac agg caa gtt ttg gtg aaa tgg ctg gta aga cac     195
Pro Leu Arg Gly Tyr Arg Gln Val Leu Val Lys Trp Leu Val Arg His
45              50                  55                  60

ggc tct gac tcc gtc acc atc ttc cta cgt gac tcc act gga gac cat     243
Gly Ser Asp Ser Val Thr Ile Phe Leu Arg Asp Ser Thr Gly Asp His
                65                  70                  75

atc cag cag gca aag tac aga ggc cgc ctg aaa gtg agc cac aaa gtt     291
Ile Gln Gln Ala Lys Tyr Arg Gly Arg Leu Lys Val Ser His Lys Val
                80                  85                  90

cca gga gat gtg tcc ctc caa ata aat acc ctg cag atg gat gac agg     339
Pro Gly Asp Val Ser Leu Gln Ile Asn Thr Leu Gln Met Asp Asp Arg
                95                  100                 105

aat cac tat aca tgt gag gtc acc tgg cag act cct gat gga aac caa     387
Asn His Tyr Thr Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln
        110             115                 120

gta ata aga gat aag atc att gag ctc cgt gtt cgg aaa tat aat cca     435
Val Ile Arg Asp Lys Ile Ile Glu Leu Arg Val Arg Lys Tyr Asn Pro
125             130                 135                 140

cct aga atc aat act gaa gca cct aca acc ctg cac tcc tct ttg gaa     483
Pro Arg Ile Asn Thr Glu Ala Pro Thr Thr Leu His Ser Ser Leu Glu
            145                 150                 155
```

```
gca aca act ata atg agt tca acc tct gac ttg acc act aat ggg act      531
Ala Thr Thr Ile Met Ser Ser Thr Ser Asp Leu Thr Thr Asn Gly Thr
            160             165             170

gga aaa ctt gag gag acc att gct ggt tca ggg agg aac ctg cca atc      579
Gly Lys Leu Glu Glu Thr Ile Ala Gly Ser Gly Arg Asn Leu Pro Ile
        175             180             185

ttt gcc ata atc ttc atc atc tcc ctt tgc tgc ata gta gct gtc acc      627
Phe Ala Ile Ile Phe Ile Ile Ser Leu Cys Cys Ile Val Ala Val Thr
        190             195             200

ata cct tat atc ttg ttc cgc tgc agg aca ttc caa caa gag tat gtc      675
Ile Pro Tyr Ile Leu Phe Arg Cys Arg Thr Phe Gln Gln Glu Tyr Val
205             210             215             220

tat gga gtg agc agg gtg ttt gcc agg aag aca agc aac tct gaa gaa      723
Tyr Gly Val Ser Arg Val Phe Ala Arg Lys Thr Ser Asn Ser Glu Glu
            225             230             235

acc aca agg gtg act acc atc gca act gat gaa cca gat tcc cag gct      771
Thr Thr Arg Val Thr Thr Ile Ala Thr Asp Glu Pro Asp Ser Gln Ala
            240             245             250

ctg att agt gac tac tct gat gat cct tgc ctc agc cag gag tac caa      819
Leu Ile Ser Asp Tyr Ser Asp Asp Pro Cys Leu Ser Gln Glu Tyr Gln
            255             260             265

ata acc atc aga tca aca atg tct att cct gcc tgc tgaacacagt tt        867
Ile Thr Ile Arg Ser Thr Met Ser Ile Pro Ala Cys
            270             275             280
```

```
<210>   14
<211>   280
<212>   PRT
<213>   Mus musculus

<400>   14
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```
Met Glu Ile Ser Ser Gly Leu Leu Phe Leu Gly His Leu Ile Val Leu
1               5               10              15


Thr Tyr Gly His Pro Thr Leu Lys Thr Pro Glu Ser Val Thr Gly Thr
            20              25              30


Trp Lys Gly Asp Val Lys Ile Gln Cys Ile Tyr Asp Pro Leu Arg Gly
            35              40              45


Tyr Arg Gln Val Leu Val Lys Trp Leu Val Arg His Gly Ser Asp Ser
        50              55              60


Val Thr Ile Phe Leu Arg Asp Ser Thr Gly Asp His Ile Gln Gln Ala
65              70              75              80


Lys Tyr Arg Gly Arg Leu Lys Val Ser His Lys Val Pro Gly Asp Val
            85              90              95
```

```
Ser Leu Gln Ile Asn Thr Leu Gln Met Asp Asp Arg Asn His Tyr Thr
        100                 105                 110
```

```
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Ile Arg Asp
        115                 120                 125
```

```
Lys Ile Ile Glu Leu Arg Val Arg Lys Tyr Asn Pro Pro Arg Ile Asn
        130             135             140
```

```
Thr Glu Ala Pro Thr Thr Leu His Ser Ser Leu Glu Ala Thr Thr Ile
145             150             155                 160
```

```
Met Ser Ser Thr Ser Asp Leu Thr Thr Asn Gly Thr Gly Lys Leu Glu
                165             170             175
```

```
Glu Thr Ile Ala Gly Ser Gly Arg Asn Leu Pro Ile Phe Ala Ile Ile
            180             185             190
```

```
Phe Ile Ile Ser Leu Cys Cys Ile Val Ala Val Thr Ile Pro Tyr Ile
        195             200             205
```

```
Leu Phe Arg Cys Arg Thr Phe Gln Gln Glu Tyr Val Tyr Gly Val Ser
        210             215             220
```

```
Arg Val Phe Ala Arg Lys Thr Ser Asn Ser Glu Glu Thr Thr Arg Val
225             230             235                 240
```

```
Thr Thr Ile Ala Thr Asp Glu Pro Asp Ser Gln Ala Leu Ile Ser Asp
            245             250             255
```

```
Tyr Ser Asp Asp Pro Cys Leu Ser Gln Glu Tyr Gln Ile Thr Ile Arg
            260             265             270
```

```
Ser Thr Met Ser Ile Pro Ala Cys
        275             280
```

```
<210>  15
<211>  574
<212>  DNA
<213>  Mus musculus
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```
<220>
<221>  CDS
<222>  (11)..(574)
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<400>  15
gggtaccagg atg gag atc tca tca ggc ttg ctg ttc ctg ggc cac cta        49
           Met Glu Ile Ser Ser Gly Leu Leu Phe Leu Gly His Leu
```

```
                1                    5                      10

ata gtg ctc acc tat ggc cac ccc acc cta aaa aca cct gag agt gtg        97
Ile Val Leu Thr Tyr Gly His Pro Thr Leu Lys Thr Pro Glu Ser Val
        15                  20                  25

aca ggg acc tgg aaa gga gat gtg aag att cag tgc atc tat gat ccc       145
Thr Gly Thr Trp Lys Gly Asp Val Lys Ile Gln Cys Ile Tyr Asp Pro
30                  35                  40                  45

ctg aga ggc tac agg caa gtt ttg gtg aaa tgg ctg gta aga cac ggc       193
Leu Arg Gly Tyr Arg Gln Val Leu Val Lys Trp Leu Val Arg His Gly
                50                  55                  60

tct gac tcc gtc acc atc ttc cta cgt gac tcc act gga gac cat atc       241
Ser Asp Ser Val Thr Ile Phe Leu Arg Asp Ser Thr Gly Asp His Ile
            65                  70                  75

cag cag gca aag tac aga ggc cgc ctg aaa gtg agc cac aaa gtt cca       289
Gln Gln Ala Lys Tyr Arg Gly Arg Leu Lys Val Ser His Lys Val Pro
            80                  85                  90

gga gat gtg tcc ctc caa ata aat acc ctg cag atg gat gac agg aat       337
Gly Asp Val Ser Leu Gln Ile Asn Thr Leu Gln Met Asp Asp Arg Asn
            95                  100                 105

cac tat aca tgt gag gtc acc tgg cag act cct gat gga aac caa gta       385
His Tyr Thr Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val
110                 115                 120                 125

ata aga gat aag atc att gag ctc cgt gtt cgg aaa tat aat cca cct       433
Ile Arg Asp Lys Ile Ile Glu Leu Arg Val Arg Lys Tyr Asn Pro Pro
                130                 135                 140

aga atc aat act gaa gca cct aca acc ctg cac tcc tct ttg gaa gca       481
Arg Ile Asn Thr Glu Ala Pro Thr Thr Leu His Ser Ser Leu Glu Ala
            145                 150                 155

aca act ata atg agt tca acc tct gac ttg acc act aat ggg act gga       529
Thr Thr Ile Met Ser Ser Thr Ser Asp Leu Thr Thr Asn Gly Thr Gly
            160                 165                 170

aaa ctt gag gag acc att gct ggt tca ggg agg aac ctg cta gcc            574
Lys Leu Glu Glu Thr Ile Ala Gly Ser Gly Arg Asn Leu Leu Ala
            175                 180                 185


<210>  16
<211>  188
<212>  PRT
<213>  Mus musculus

<400>  16

Met Glu Ile Ser Ser Gly Leu Leu Phe Leu Gly His Leu Ile Val Leu
1               5                   10                  15


Thr Tyr Gly His Pro Thr Leu Lys Thr Pro Glu Ser Val Thr Gly Thr
            20                  25                  30
```

```
Trp Lys Gly Asp Val Lys Ile Gln Cys Ile Tyr Asp Pro Leu Arg Gly
        35                  40                  45

Tyr Arg Gln Val Leu Val Lys Trp Leu Val Arg His Gly Ser Asp Ser
        50                  55                  60

Val Thr Ile Phe Leu Arg Asp Ser Thr Gly Asp His Ile Gln Gln Ala
65                  70                  75                  80

Lys Tyr Arg Gly Arg Leu Lys Val Ser His Lys Val Pro Gly Asp Val
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Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg
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gtg gcc atc ttc gca agt ggc tgc tcc agt gat gag cca act tcc cag    1058
Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln
            340                 345                 350

aat ctg ggc aac aac tac tct gat gag ccc tgc ata gga cag gag tac    1106
Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr
            355                 360                 365
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cag atc atc gcc cag atc aat ggc aac tac gcc cgc ctg ctg gac aca          1154
Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr
        370             375                 380

gtt cct ctg gat tat gag ttt ctg gcc act gag ggc aaa agt gtc tgt          1202
Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys
        385             390                 395

taaaaatg                                                                  1210
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<210> 42
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<212> PRT
<213> homo sapiens

<400> 42

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Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
            20              25              30


Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
        35              40              45


Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
    50              55              60


Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65              70              75              80


Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
            85              90              95


Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
            100             105             110


Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
            115             120             125


Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
    130             135             140


Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145             150             155             160


Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
            165             170             175
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Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
            180             185             190

Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
            195             200             205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
    210             215             220

Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
225             230             235             240

Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
            245             250             255

Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
            260             265             270

Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
            275             280             285

Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
    290             295             300

Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
305             310             315             320

Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
            325             330             335

Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
            340             345             350

Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
            355             360             365

Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val
            370             375             380

Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys
385             390             395
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<210> 43
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<212> DNA
<213> homo sapiens

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<222>  (1)..(843)

<220>
<221>  misc_feature
<222>  (513)..(513)
<223>  T at position 513 might be a C (silent mutation)

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act tat ggc cgt ccc atc ctg gaa gtg cca gag agt gta aca gga cct       96
Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
                20                  25                  30

tgg aaa ggg gat gtg aat ctt ccc tgc acc tat gac ccc ctg caa ggc      144
Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
            35                  40                  45

tac acc caa gtc ttg gtg aag tgg ctg gta caa cgt ggc tca gac cct      192
Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
        50                  55                  60

gtc acc atc ttt cta cgt gac tct tct gga gac cat atc cag cag gca      240
Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65                  70                  75                  80

aag tac cag ggc cgc ctg cat gtg agc cac aag gtt cca gga gat gta      288
Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
                85                  90                  95

tcc ctc caa ttg agc acc ctg gag atg gat gac cgg agc cac tac acg      336
Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
                100                 105                 110

tgt gaa gtc acc tgg cag act cct gat ggc aac caa gtc gtg aga gat      384
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
            115                 120                 125

aag att act gag ctc cgt gtc cag aaa ctc tct gtc tcc aag ccc aca      432
Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
        130                 135                 140

gtg aca act ggc agc ggt tat ggc ttc acg gtg ccc cag gga atg agg      480
Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145                 150                 155                 160

att agc ctt caa tgc cag gct cgg ggt tct cct ccc atc agt tat att      528
Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
                165                 170                 175

tgg tat aag caa cag act aat aac cag gaa ccc atc aaa gta gca acc      576
Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
            180                 185                 190

cta agt acc tta ctc ttc aag cct gcg gtg ata gcc gac tca ggc tcc      624
Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
        195                 200                 205
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tat ttc tgc act gcc aag ggc cag gtt ggc tct gag cag cac agc gac       672
Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
    210                 215                 220

att gtg aag ttt gtg gtc aaa gac tcc tca aag cta ctc aag acc aag       720
Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
225                 230                 235                 240

act gag gca cct aca acc atg aca tac ccc ttg aaa gca aca tct aca       768
Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
                245                 250                 255

gtg aag cag tcc tgg gac tgg acc act gac atg gat ggc tac ctt gga       816
Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
                260                 265                 270

gag acc agt gct ggg cca gga aag cta g                                  844
Glu Thr Ser Ala Gly Pro Gly Lys Leu
                275                 280


<210>   44
<211>   281
<212>   PRT
<213>   homo sapiens

<400>   44

Met Gly Ile Leu Leu Gly Leu Leu Leu Gly His Leu Thr Val Asp
1               5               10              15


Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
                20              25              30


Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
            35              40              45


Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
        50              55              60


Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65              70              75              80


Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
            85              90              95


Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
            100             105             110


Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
        115             120             125


Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
        130             135             140
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Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145   150   155   160

Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
              165   170   175

Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
              180   185   190

Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
              195   200   205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
    210   215   220

Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
225   230   235   240

Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
              245   250   255

Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
              260   265   270

Glu Thr Ser Ala Gly Pro Gly Lys Leu
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attggcaatt agccatatta gtcattggtt atatagcata aatcaatatt ggctattggc   240

cattgcatac gttgtatcta tatcataata tgtacattta tattggctca tgtccaatat   300

gaccgccatg ttgacattga ttattgacta gttattaata gtaatcaatt acggggtcat   360

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